Broadcom Drives Gigabit Broadband with Industry's Highest Port Density G.fast Vector Processor

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G.fast 212 MHz crosstalk cancellation solution expands the delivery of fiber-equivalent broadband via installed copper infrastructure

SAN JOSE, Calif., May 15, 2019 (GLOBE NEWSWIRE) -- Broadcom Inc. (NASDAQ: AVGO) today announced the production release of the BCM65550, a G.fast 212 MHz system-level vector processor, enabling gigabit broadband services to be delivered to high-density residential areas. Telecom operators can now deploy fiber to these locations and leverage the existing installed copper lines for the final gigabit speed connection.

Deploying fiber all the way to a customer premise is often costly and challenging to execute, with expensive cable pulls and complex rights of way. G.fast avoids these issues by providing fiber-equivalent speeds over legacy copper wiring. Existing G.fast solutions address lower density installations, but with the BCM65550, operators can now support up to 192 lines of vectored 212MHz G.fast for high density residential sites.

The BCM65550 builds upon Broadcom's market-proven G.fast modem and embedded vectoring solution, the BCM65400, now supporting production G.fast deployments across the globe. Vectoring, or crosstalk cancellation, requires extensive compute resources, and the BCM65550 delivers this without compromise. Crosstalk is cancelled across all lines with extreme resolution, achieving nearly identical performance to ideal, crosstalk-free environments.

"As demand for gigabit speeds rises, it is crucial that operators address this requirement by moving fibre closer to the customer, but there can be a significant challenge here in regard to costs and logistics especially in high-density MDU markets," said Robin Mersh, CEO of Broadband Forum. "Broadcom's latest G.fast system-level vectoring solution is an effective way for operators to deploy and deliver gigabit broadband services for those MDU markets. Broadcom is building on its existing G.fast portfolio, with its chipset used in three different Broadband Forum G.fast Certified DPU devices, highlighting the importance of interoperability in mass-market deployments."

"Until now, high-density G.fast deployments lacked a no-compromise system-level vectoring solution," said Greg Fischer, senior vice president and general manager of the Broadband Carrier Access Products Division at Broadcom. "The BCM65550 fills this gap and enables the use of existing infrastructure without modification."

BCM65550 Key Features

- Crosstalk cancellation solutions for up to 192 twisted-pair copper ports
- Hybrid Vectoring to support parallel operation of G.fast and VDSL on a single device
- Proxy Vectoring to offer seamless support for new G.fast cards introduced into a legacy VDSL system

Availability

The BCM65550 has been released for mass production. Please contact your local Broadcom sales representative for samples and pricing.

Further information on the BCM65550 can be found online at:

https://www.broadcom.com/products/broadband/xdsl/bcm65550

About Broadcom
Broadcom Inc. (NASDAQ: AVGO) is a global technology leader that designs, develops and supplies a broad range of semiconductor and infrastructure software solutions. Broadcom's category-leading product portfolio serves critical markets including data center, networking, enterprise software, broadband, wireless, storage and industrial. Our solutions include data center networking and storage, enterprise and mainframe software focused on automation, monitoring and security, smartphone components, telecoms and factory automation. For more information, go to www.broadcom.com.

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